



## ISLAND GEOTECHNICAL ENGINEERING

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**Date:** 21 June 2023

**To:** Dwight Galbi  
Kapalua, Hawaii

**From:** Island Geotechnical Engineering  
330 Ohukai Rd., Unit #119 Kihei,  
96753, Maui, Hawaii

**Re:** Moisture content, grain size analysis,  
and proctor tests completed on  
samples received on 06/15/2023 (Job  
# 222217-TM).

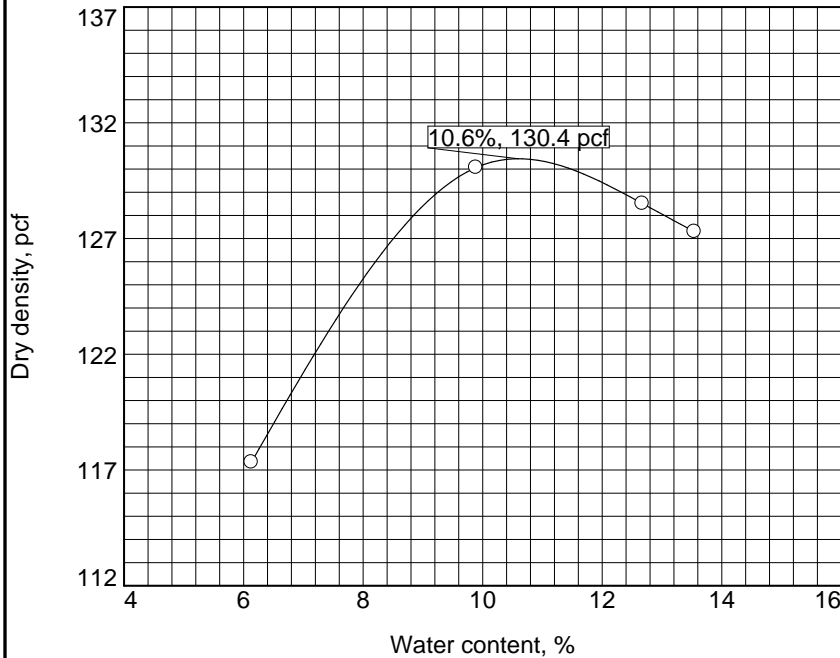
### TRANSMITTAL

#### Submittal:

1. (4) Moisture content tests  
(1) Grain size analyses  
(1) Maximum Dry Density calculations  
(1) Optimum Moisture calculations

All for samples received on  
06/15/2023.

# COMPACTION TEST REPORT



Preparation Method _____	
Rammer: Wt. <u>10 lb.</u>	Drop <u>18 in.</u>
Type _____	
Layers: No. <u>five</u>	Blows per <u>56</u>
Mold Size <u>0.075 cu. ft.</u>	
Test Performed on Material	
Passing <u>3/4 in.</u> Sieve	
%>3/4 in. <u>2.4</u>	%<No.200 <u>3.0</u>
Atterberg (D 4318): LL _____ PI _____	
NM (D 2216) _____ Sp.G. (D 854) _____	
USCS (D 2487) <u>SP</u>	
AASHTO (M 145) _____	
Date: Sampled <u>6/15/23</u>	
Received <u>6/15/23</u>	
Tested _____	
Tested By _____	

### COMPACTION TESTING DATA ASTM D 1557-91 Procedure C Modified

	1	2	3	4	5	6
<b>WM + WS</b>	23.04	23.18	23.16	21.66		
<b>WM</b>	12.32	12.32	12.32	12.32		
<b>WW + T #1</b>	1667.6	1929.8	2175.1	2282.4		
<b>WD + T #1</b>	1540.7	1749.0	1953.1	2165.2		
<b>TARE #1</b>	257.6	322.3	313.8	253.7		
<b>WW + T #2</b>						
<b>WD + T #2</b>						
<b>TARE #2</b>						
<b>MOIST.</b>	9.9	12.7	13.5	6.1		
<b>DRY DENS.</b>	130.1	128.5	127.3	117.3		

### SIEVE TEST RESULTS

Opening Size	% Passing	Specs.
1	100.0	
3/4"	97.6	
1/2"	89.7	
3/8"	79.2	
#4	59.2	
#10	40.5	
#20	25.5	
#40	15.8	
#50	11.6	
#60	9.7	
#100	5.6	
#200	3.0	

### TEST RESULTS

Maximum dry density = 130.4 pcf  
Optimum moisture = 10.6 %

**Project No.** 222217-TM    **Client:** Dwight Galbi  
**Project:** Mahana Estates Lot 34

○ **Depth:** onsite      **Sample Number:** 2

**Island Geotechnical Engineering**

**Kihei, Hawaii**

### Material Description

Select Fill Imported from Waikapu Quarry

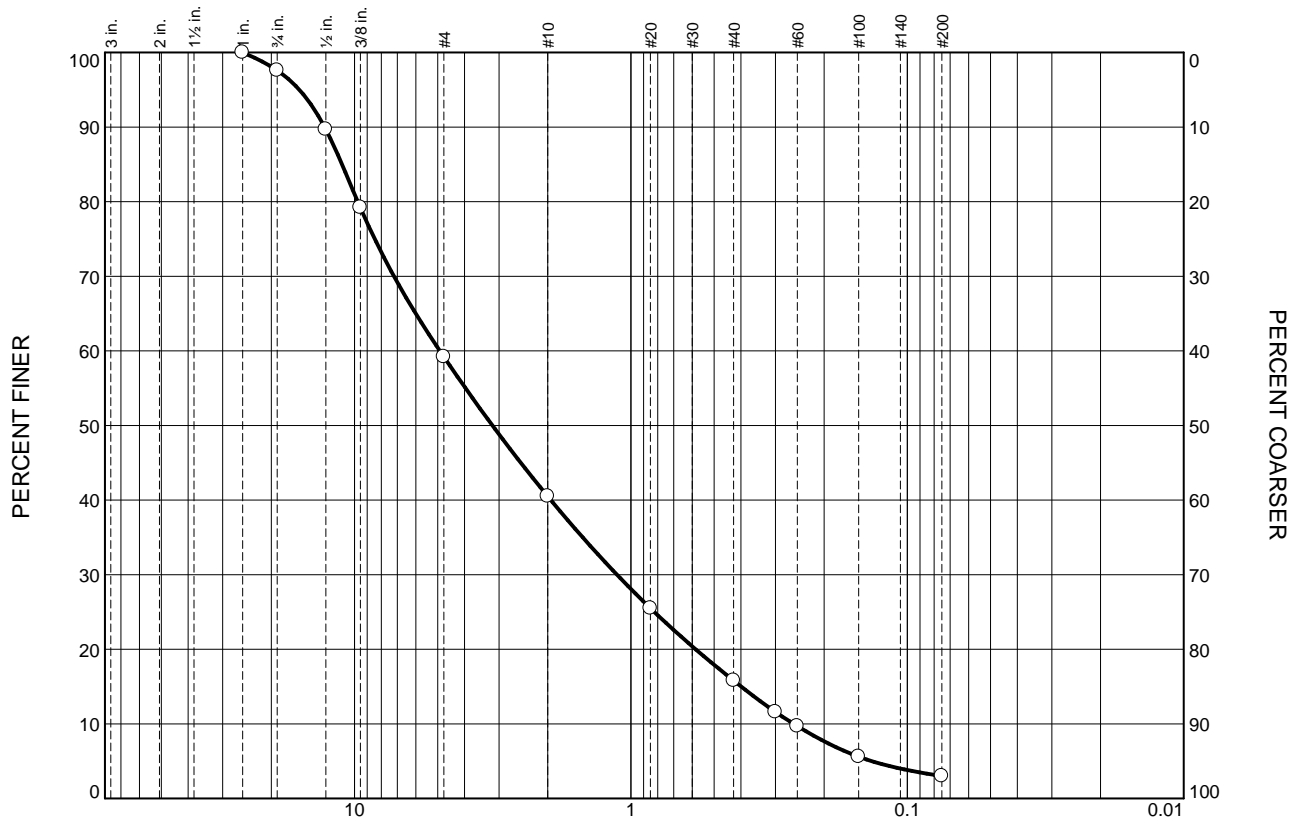
### Remarks:

**Checked by:** \_\_\_\_\_

**Title:**

**Figure**

# SIEVE ANALYSIS



GRAIN SIZE - mm.

% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.4	38.4	18.7	24.7	12.8	3.0	

## SOIL DATA

SYMBOL	SOURCE	SAMPLE NO.	DEPTH (ft.)	Material Description	USCS
○		2	onsite	Select Fill Imported from Waikapu Quarry	SP

**Island Geotechnical  
Engineering  
Kihei, Hawaii**

**Client:** Dwight Galbi  
**Project:** Mahana Estates Lot 34  
**Project No.:** 222217-TM

**Figure**

Tested By: TM